

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/042288 A1

(51) International Patent Classification⁷: **B60J 7/047**

B. [US/US]; 39843 Wales, Canton, MI 48188 (US). **CARSON, Douglas, C.** [US/US]; 8402 Scotia, Pinckney, MI 48169 (US). **NEWKIRK, David, L.** [US/US]; 209 MainStreet, Sterling, MI 48659 (US). **LONG, Jhon, E.** [US/US]; 2769 Bay Vista, Highland, MI 48357 (US).

(21) International Application Number:

PCT/CA2004/001919

(22) International Filing Date:
4 November 2004 (04.11.2004)

(74) Agents: **PORAT, Alex et al.**; Magna International INC., 337 Magna Drive, Aurora, Ontario L4G 7K1 (CA).

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/517,032 4 November 2003 (04.11.2003) US
60/559,193 2 April 2004 (02.04.2004) US

(71) Applicant (for all designated States except US): **INTIER AUTOMOTIVE CLOSURES INC.** [CA/CA]; 521 Newpark Boulevard, Newmarket, Ontario L3Y 4X7 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

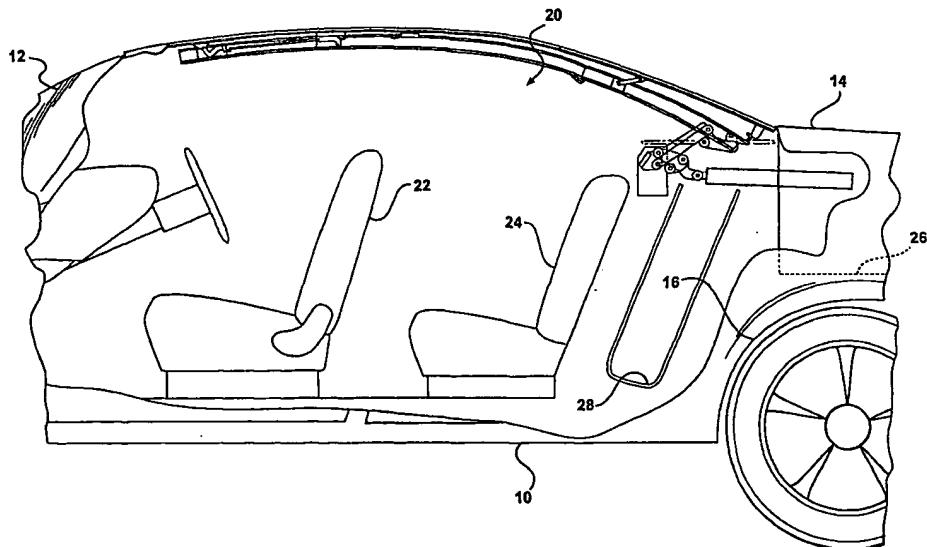
(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOONEY, Robert, B.** [US/US]; 38943 Plumbrook, Farmington Hills, MI 48331 (US). **ALLAN, Troy, D.** [US/US]; 2152 Moorlands View, Howell, MI 48855 (US). **DICKIE, Robert,**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: PANORAMIC RETRACTABLE TOP



(57) Abstract: A retractable roof assembly is provided for a motor vehicle having a rear seat and spaced apart roof side frame members defining a roof opening. The retractable roof assembly includes a split rail assembly having a fixed rail adapted to be fixedly secured to each of the roof side frame members and extending along a portion thereof, and a movable rail extending rearward of the fixed rail along a remaining portion of each of the roof side frame members. A plurality of roof panels extends between the roof side frame members and slidably engages the split rail assembly for selective movement into a stacked configuration above the movable rail. A linkage assembly is operably connected to the movable rail for pivoting and articulating the movable rail relative to the fixed rail when the plurality of roof panels is in the stacked configuration in order to stow the plurality of roof panels behind the rear seat of the motor vehicle such that the entire roof opening is exposed.

WO 2005/042288 A1



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.